

FAS – Office of Global Analysis (OGA)
United States Department of Agriculture (USDA)
International Operational Agriculture Monitoring Program



June Report - Week 1

1. Production for MY 2008/09 winter grains is forecasted to be lower than the previous year. Production decreases are related to late rainfall during the start of season combined with below normal seasonal precipitation. In addition, below normal temperatures during crop establishment and above normal temperatures during peak growth adversely affected the winter grains crop.
2. Cumulative precipitation comparison between MY 2008/09 and MY 2007/08 (Figure 1).
3. Regional crop harvest maps were created using coarser MODIS NDVI data between late-March and late-May. The analysis showed that most governorates have started harvesting (Figure 2). The estimated area of change is ~ 1.12 million hectares.
4. Regional crop harvest maps were created using moderate AWiFS NDVI data between late-March and late-May to compliment the MODIS analysis. The analysis showed that most governorates have started harvesting (Figure 3). The estimated area of change is ~ 1.21 million hectares.
5. High resolution winter grains map shows crop progression from start of season to harvest for AOI #11, As Sulaymaniyah (Figure 4).

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Change from
5-Year Average

Wheat Area Forecast: MY 2008/09 (Million Hectares)

Region	Governorate	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	5-Year Average	Difference 5-Year Avg
North	Arbil	0.133	0.235	0.099	0.117	0.127	0.120	0.317	0.121	-85.6%
	Dahuk	0.122	0.129	0.098	0.102	0.091	0.100	0.326	0.095	-72.3%
	As Sulaymaniyah	0.163	0.109	0.070	0.153	0.120	0.120	0.370	0.115	-39.2%
	Ninawa	0.751	0.450	0.613	0.551	0.489	0.464	0.327	0.478	-94.3%
Central	At Ta'min	0.179	0.183	0.160	0.195	0.141	0.205	0.104	0.167	-37.9%
	Diyala	0.063	0.094	0.087	0.109	0.113	0.106	0.379	0.093	-15.0%
	Salah ad Din	0.110	0.125	0.107	0.110	0.108	0.107	0.394	0.109	-13.5%
	Baghdad	0.043	0.055	0.043	0.060	0.059	0.048	0.353	0.052	2.9%
	Babil	0.047	0.083	0.049	0.068	0.068	0.065	0.364	0.064	1.4%
	Wasit	0.165	0.159	0.148	0.166	0.157	0.164	0.148	0.158	-6.4%
	Al Qadisiyah	0.058	0.065	0.093	0.094	0.095	0.092	0.390	0.084	7.7%
	Karbala	0.006	0.005	0.006	0.007	0.004	0.002	0.304	0.005	-10.0%
	Al Anbar	0.036	0.033	0.043	0.035	0.056	0.057	0.344	0.043	1.1%
	An Najaf	0.046	0.045	0.046	0.048	0.045	0.050	0.343	0.046	-7.6%
	Al Muthanna	0.006	0.017	0.018	0.012	0.012	0.011	0.312	0.013	-3.4%
South	Dhi Qar	0.020	0.020	0.032	0.046	0.061	0.059	0.335	0.039	-11.2%
	Maysan	0.055	0.063	0.077	0.088	0.087	0.094	0.386	0.079	9.1%
	Al Basrah	0.013	0.016	0.016	0.014	0.017	0.017	0.316	0.016	4.6%
Total		2.02	1.89	1.81	1.97	1.85	1.88	1.01	1.78	-42.9%

Forecast

Change from 5-year
Average

Barley Area Forecast: MY 2008/09 (Million Hectares)

Region	Governorate	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	5-Year Average	Difference 5-Year Avg
North	Arbil	0.110	0.149	0.086	0.271	0.243	0.250	0.022	0.161	-86.5%
	Dahuk	0.032	0.039	0.027	0.037	0.041	0.050	0.009	0.034	-72.2%
	As Sulaymaniyah	0.122	0.043	0.052	0.125	0.108	0.110	0.051	0.087	-41.2%
	Ninawa	0.653	0.525	0.529	0.614	0.595	0.615	0.029	0.509	-94.2%
Central	At Ta'min	0.025	0.038	0.010	0.023	0.029	0.030	0.015	0.024	-38.4%
	Diyala	0.023	0.095	0.038	0.037	0.035	0.035	0.034	0.042	-19.5%
	Salah ad Din	0.016	0.030	0.039	0.028	0.015	0.015	0.020	0.023	-15.6%
	Baghdad	0.035	0.033	0.005	0.008	0.006	0.005	0.009	0.010	-9.1%
	Babil	0.012	0.017	0.021	0.020	0.024	0.025	0.020	0.020	2.1%
	Wasit	0.048	0.047	0.055	0.069	0.063	0.060	0.053	0.056	-6.8%
	Al Qadisiyah	0.043	0.085	0.078	0.077	0.080	0.080	0.080	0.075	7.3%
	Karbala	0.032	0.001	0.002	0.002	0.003	0.003	0.002	0.002	-6.1%
	Al Anbar	0.032	0.003	0.003	0.002	0.003	0.003	0.003	0.003	2.4%
	An Najaf	0.031	0.001	0.002	0.002	0.002	0.002	0.001	0.002	-8.3%
	Al Muthanna	0.023	0.033	0.038	0.023	0.027	0.025	0.028	0.028	-0.9%
South	Dhi Qar	0.043	0.043	0.064	0.082	0.075	0.075	0.059	0.063	-6.4%
	Maysan	0.030	0.038	0.066	0.071	0.065	0.065	0.060	0.056	6.6%
	Al Basrah	0.019	0.007	0.006	0.005	0.006	0.005	0.007	0.006	4.1%
Total		1.20	1.23	1.12	1.50	1.42	1.45	0.50	1.20	-58.2%

Data Sources: AWiFS IRS-P6, Quickbird, MODIS imagery. COSIT time series crop statistics.

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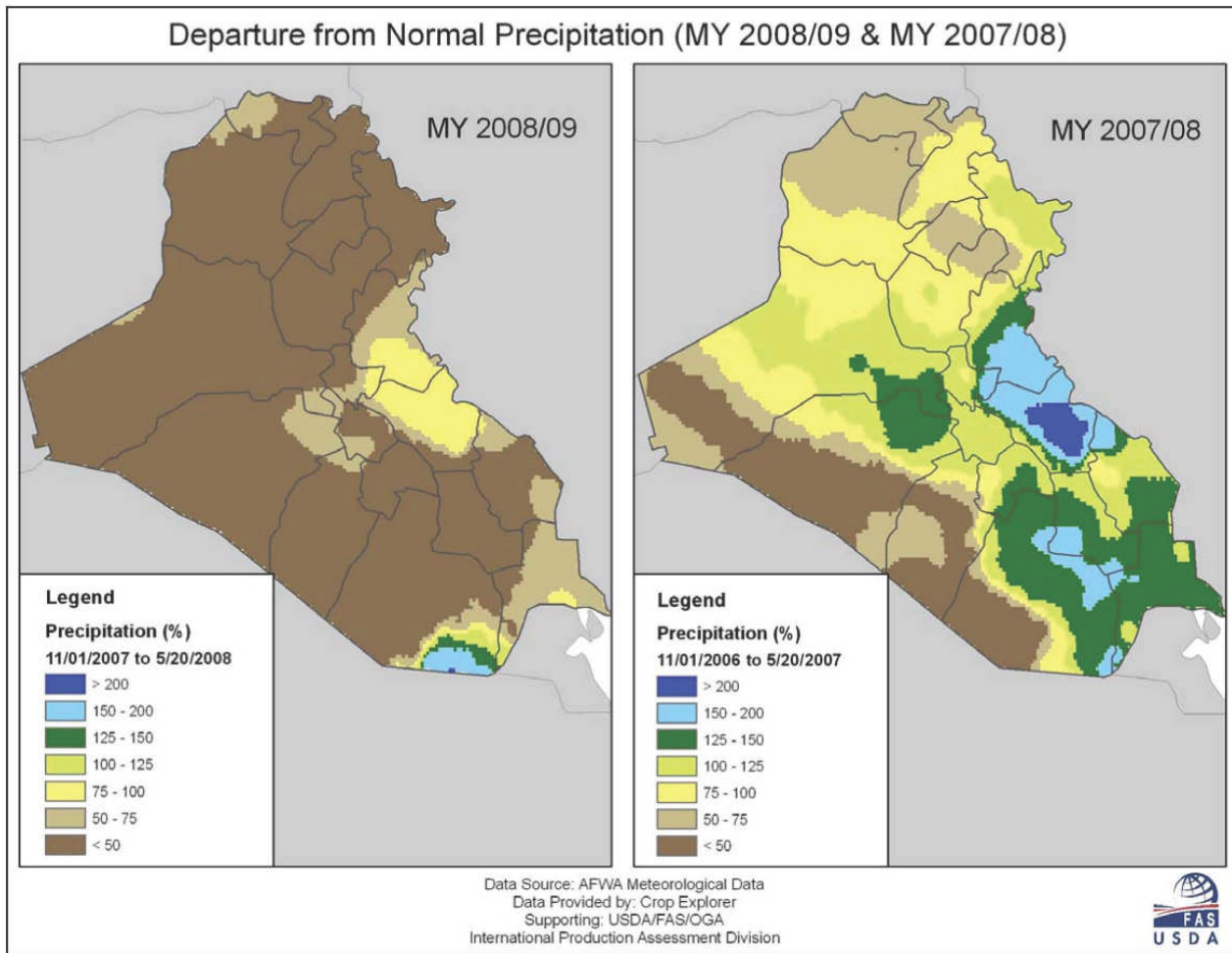


Figure 1: Departure from normal cumulative precipitation: MY 2008/09 and MY 2007/08.

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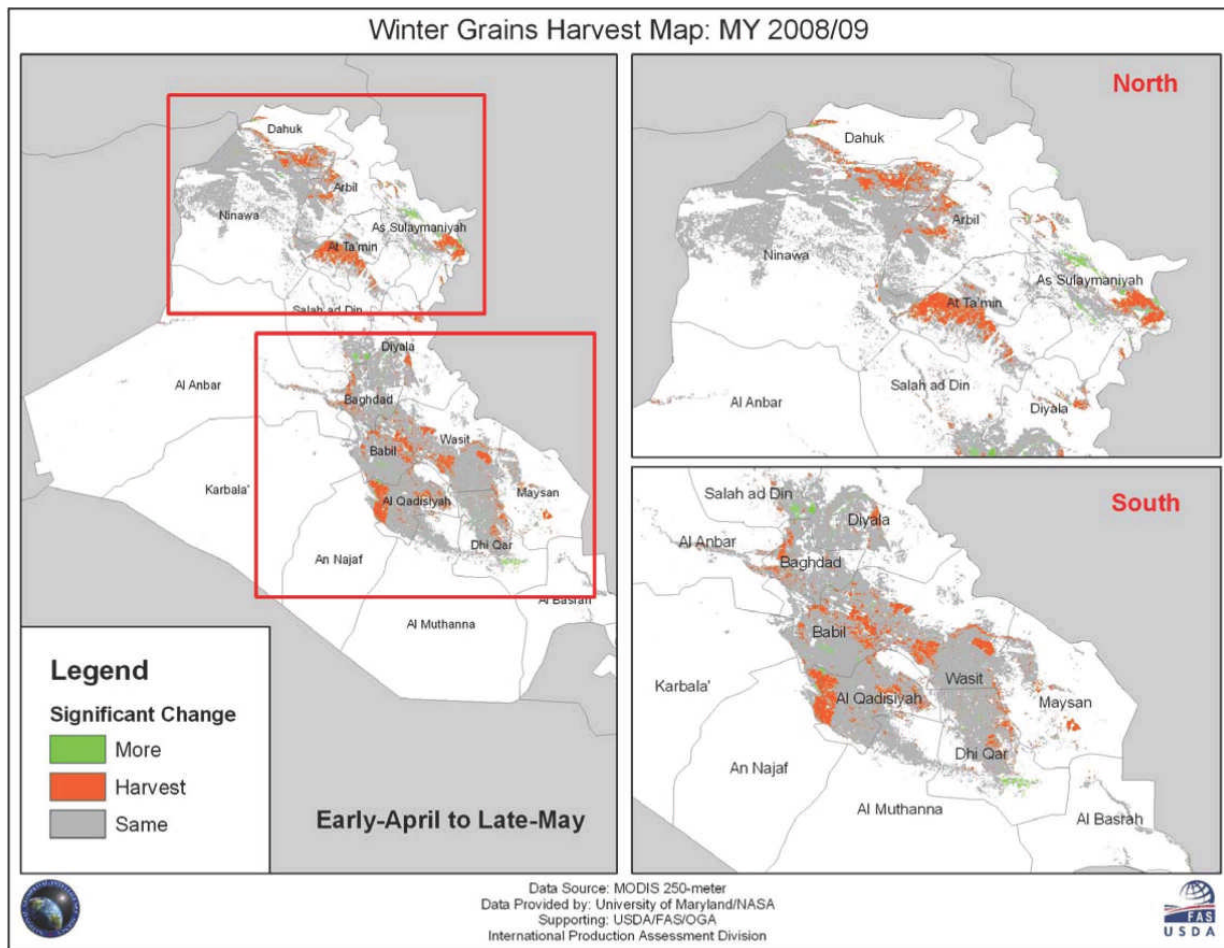


Figure 2: Winter grains harvest map derived from change in MODIS NDVI composites between March 21/April 5 and May 8/May 23.

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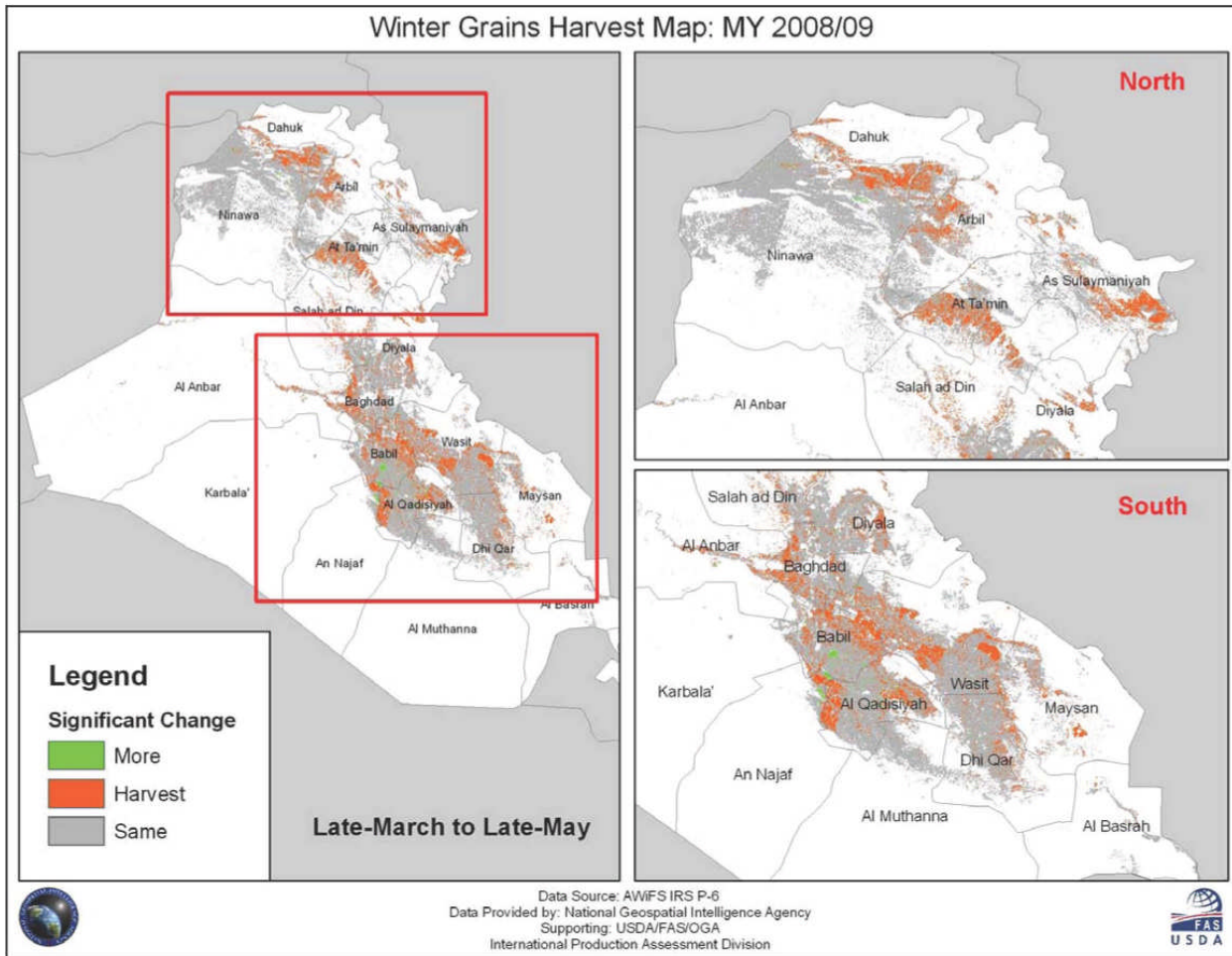


Figure 3: Winter grains harvest map derived from change in AWiFS NDVI composites between March 19/April 7 and May 5/May 25.

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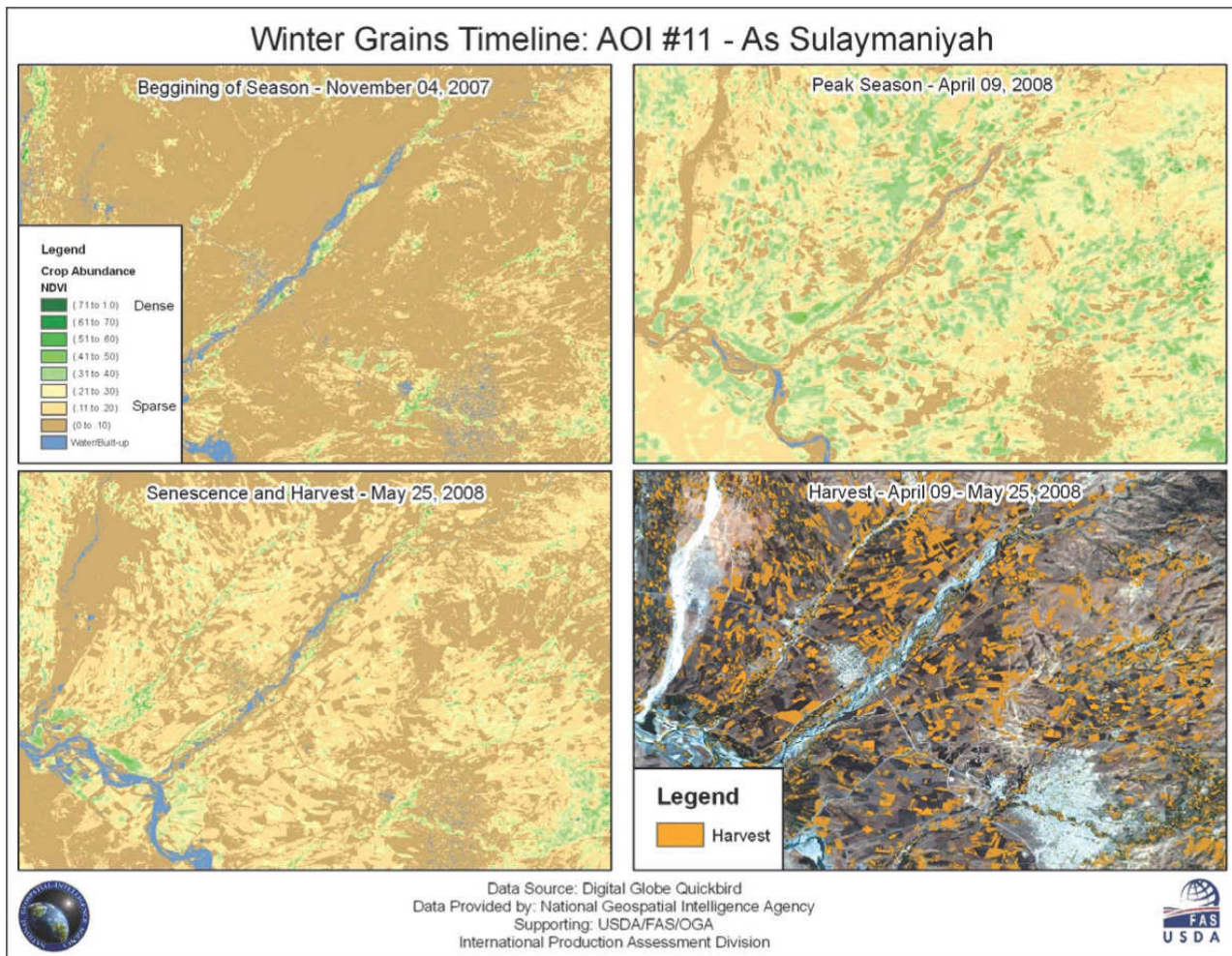


Figure 4: Winter grains crop progress timeline derived from high resolution Quickbird imagery collected over AOI #11, As Sulaymaniyah.